

Title (en)

Communication system topology providing dynamic allocation of B-channels

Title (de)

Topologie eines Übertragungssystems zur Bereitstellung einer dynamischen Zuweisung von B-Kanälen

Title (fr)

Topologie de système de communication fournissant l'attribution dynamique de canaux-B

Publication

**EP 0707432 B1 20060503 (EN)**

Application

**EP 95307026 A 19951003**

Priority

US 32318494 A 19941014

Abstract (en)

[origin: EP0707432A2] Communications systems and methods are directed to a novel communications platform which employs a TDM bus, a TDM bus controller, a passive Ethernet bus, and a centralized Ethernet hub to provide for the communication of data, voice, and/or video signals among a plurality of endpoint devices. The TDM bus controller provides a plurality of B-Channels on the TDM bus. The centralized Ethernet hub is coupled to the TDM bus controller via a control link. Each endpoint device is connected to at least one of the passive Ethernet bus and the TDM bus. The centralized Ethernet hub operates over the passive Ethernet bus to dynamically allocate one or more individual B-Channels of a single B-Channel set amongst a group of endpoint devices, such as telephone equipment, video communications equipment, processors, and/or computing devices. The centralized Ethernet hub provides a logical control channel to each endpoint device for call establishment. Each endpoint device is coupled to the logical control channel over at least one of a first path comprising the passive Ethernet bus and a second path comprising the TDM bus, the TDM bus controller, and the control link. The logical control channel executes B-channel seizure algorithms for establishment of communications to and from selected endpoint devices. <IMAGE>

IPC 8 full level

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CPC (source: EP US)

**H04L 12/6418** (2013.01 - EP US); **H04Q 11/04** (2013.01 - EP US); **H04L 2012/6435** (2013.01 - EP US); **H04L 2012/6454** (2013.01 - EP US); **H04L 2012/6456** (2013.01 - EP US); **H04L 2012/6475** (2013.01 - EP US)

Cited by

US6918001B2; US5982767A; GB2311690A; GB2311690B; US6345091B1; WO9943166A1; WO9965196A1; US6215789B1; US6539011B1; US6570890B1; US6574242B1; US6577631B1

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